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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,810	03/30/2004	Alon Saado	2650.00017	6018
21615 7590 09/10/2007 CHRISTOPHER P. MAIORANA, P.C. 24840 HARPER SUITE 100 ST. CLAIR SHORES, MI 48080			EXAMINER NGUYEN, LONG P	
			ART UNIT 2616	PAPER NUMBER
			MAIL DATE 09/10/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/812,810

Applicant(s)

SAADO, ALON

Examiner

Long P. Nguyen

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8, 12 and 13 is/are rejected.
- 7) ☒ Claim(s) 7 and 9-11 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 March 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Drawings

1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 1-⁵~~8~~, 8 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cummiskey (US 4,344,180) in view of Suh et al. (US 5,710,774, Hereinafter Suh).

As for claim 1 and 12, Cummiskey shows a first circuit configured to generate a data output signal (**Figure 1, #111**) in response to a data input signal (**figure 1, #100**) comprising a series of words (**Col.3 line 1-3**), a valid word signal (**Col. 3 line 40-44**), and a second circuit (**Figure 1, #105**) configured to generate said signal in response to said valid word signal (**Col. 3 line 40-44**), (ii) a start of frame signal (**Col. 3 line 21-25, Note: bit separation D**), (an end of frame signal (**Col. 3 line 21-25, Note: bit separation D**) and said data output signal (**Figure 1 #113**), but Cummiskey does not show a select signal; wherein said select signal adjusts a starting point of each of said words to match a starting point of said first word. However, Suh show a select signal (**Col. 4 line 15**); wherein said select signal adjusts a starting point of each of said words to match a starting point of said first word (**Col. 3 line 54-59**). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the signaling of Cummiskey with the frame alignment of Suh in order to select the synchronize pattern.

As for claim 2, Cummiskey shows second circuit (**Figure 1, #105**) but does not show generates said select signal in further response to a clock signal. However, Suh show generates said select signal in further response to a clock signal (**Figure 3**). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify circuit of Cummiskey with the clock signal of Suh in order to indicate the starting position of the data.

As for claim 3, Cummiskey shows wherein said first circuit comprises a data circuit (**figure 1, #111**) and said second circuit comprises a control circuit (**Figure 1, #105**).

As for claim 4, Cummiskey shows a first (**Figure 1, #101**) and a second register (**Figure 1, #111**) configured to arrange one bit of said data input signal (**Col. 3 line 45-50**); but Cummiskey does not shows a multiplexer circuit configured to present said data output signal in response to said arranged bits. However, Suh shows a multiplexer circuit configured to present said data output signal in response to said arranged bits (**Col. 6 line 41-46**). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the circuit of Cummiskey with the multiplexer of Suh in order to output a stream of data.

As for claim 5, Cummiskey shows second register includes a data input configured to receive an output of said first register (**Col. 3 lines 34-36 and Col. 3 line 42-45**).

As for claim 8, Cummiskey shows said data input signal (**figure 1, #100**), said valid word signal (**Col. 3 line 40-44**), said start of frame signal (**Col. 3 line 21-25, Note: bit separation D**) and said end of frame signal (**Col. 3 line 21-25, Note: bit separation D**) are received from a data source (**Figure 1, Note: the examiner interpret element 107, 105, are the data source and element 111 is the receiver**).

As for claim 13, Cummiskey shows means for generating a data output signal in response to (**Figure 1, #111**) a data input signal (**figure 1, #100**) comprising a series of

words (**Col.3 line 1-3**), a valid word signal (**Col. 3 line 40-44**); means for generate said signal in response to in response to said valid word signal (**Col. 3 line 40-44**), a start of frame signal (**Col. 3 line 21-25, Note: bit separation D**), an end of frame signal (**Col. 3 line 21-25, Note: bit separation D**) and said data output signal (**Figure 1 #113**), but Cummiskey does not show a select signal means for generating said select signal, wherein said select signal adjusts a starting point of each of said words to match a starting point of said first word. However, Suh show a select signal (**Col. 4 line 15**); wherein said select signal adjusts a starting point of each of said words to match a starting point of said first word (**Col. 3 line 54-59**). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the signaling of Cummiskey with the frame alignment of Suh in order to select the synchronize pattern.

4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cummiskey in view of Suh as applied to claim 1 above, and further in view of Chiang (US 7,254,206).

As for claim 6, Cummiskey shows a valid word signal (**Col. 3 line 40-44**), But Cummiskey in view of Suh does not show said first register and said second register are configured to receive said signal. However, Chiang shows said first register and said second register are configured to receive said signal (**Figure 3, Note: a pipeline of register receiving data DO receiving a reset signal**). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the valid word signal of Cummiskey with pipeline register of Chiang in order to detect the occurrence of a pattern in a serial data stream.

Allowable Subject Matter

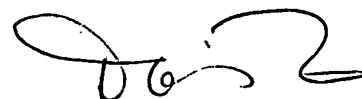
- 7, 9-11
5. Claim ~~6-11~~ are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Long P. Nguyen whose telephone number is (571)-272-9740. The examiner can normally be reached on Monday -Thursday 7:30 - 5:00 EST Alternate F 7:30-4:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To can be reached on 571-272-7629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



DORIS H. TO
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

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